

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

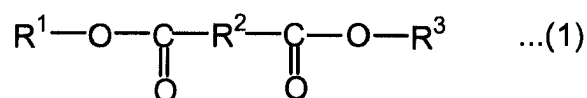
1. (original): An elastin molded article which comprises a fiber structure comprising aliphatic polyester fibers having an average fiber diameter of 0.05 to 50 μm as a supporting base material and crosslinked elastin.

2. (original): The elastin molded article according to claim 1, wherein the aliphatic polyester is a polylactic acid, a polyglycolic acid, a polycaprolactone or a copolymer thereof.

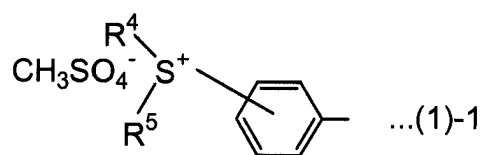
3. (original): The elastin molded article according to claim 1, wherein the fiber is a surface smooth fiber, a porous fiber or a hollow fiber.

4. (original): The elastin molded article according to claim 1, wherein the crosslinked elastin comprises a product resulting from a reaction of water-soluble elastin with at least one crosslinking agent.

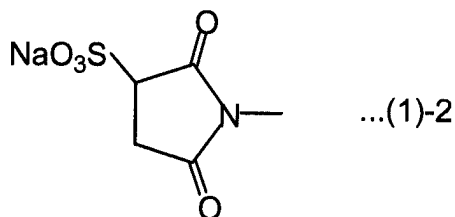
5. (original): The elastin molded article according to claim 4, wherein the crosslinking agent is a water-soluble compound represented by the following formula (1):



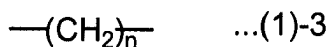
wherein R^1 and R^3 each independently represent a structure represented by the following formula (1)-1:



wherein R^4 and R^5 each independently represent H, CH_3 or C_2H_5 , or a structure represented by the following formula (1)-2:

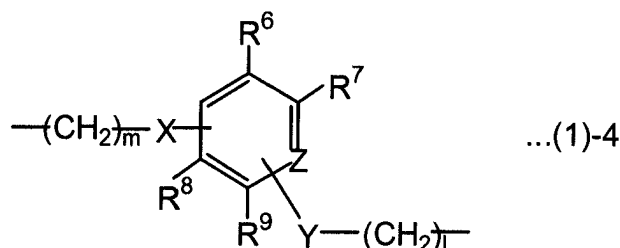


and, R^2 represents a structure represented by the following formula (1)-3:



wherein n is 1 to 20,

or a structure represented by the following formula (1)-4:



wherein m and l each independently represent an integer of 0 to 15, X and Y each independently represent CH_2 or O, Z represents C or N, and R^6 , R^7 , R^8 and R^9 each independently represent H, CH_3 or C_2H_5 .

6. (original): The elastin molded article according to claim 1, wherein the crosslinked elastin further contains at least one selected from the group consisting of a protein, a polyamino acid, sugar and a cell growth factor.

7. (original): The elastin molded article according to claim 6, wherein the protein is collagen, gelatin, fibronectin, fibrin, thrombin or laminin.

8. (original): The elastin molded article according to claim 6, wherein the polyamino acid is a polylysine or a polyglutamic acid.

9. (original): The elastin molded article according to claim 6, wherein the sugar is hyaluronic acid, chondroitin sulfuric acid, heparin, alginic acid, chitin, chitosan, cellulose or starch.

10. (original): The elastin molded article according to claim 6, wherein the cell growth factor is FGF (fibroblast growth factor), EGF (epidermal growth factor), PDGF (platelet-derived growth factor), IGF (insulin-like growth factor), VEGF (vascular endothelial growth factor), TGF- β (β -type transforming growth factor), NGF (nerve growth factor), HGF (hepatocellular growth factor) or BMP (bone morphogenetic factor).

11. (withdrawn-currently amended): A method for producing an elastin molded article characterized in that crosslinked elastin is formed by impregnating a fiber structure comprising aliphatic polyester fibers having an average fiber diameter of 0.05 to 50 μ m with water-soluble elastin and at least one crosslinking agent and by causing a crosslinking reaction to produce an elastin molded article according to claim 1.

12. (withdrawn): The method according to claim 11, wherein the fiber is a surface smooth fiber, a porous fiber or a hollow fiber.